

What is claimed is:

1. A random access control method for a CDMA system comprising a base station and a plurality of terminals, which comprises the steps of:

5 receiving at said base station preamble signals from said terminals;

transmitting to said terminals signals for allowing said random access or signals for rejecting said random access; and

10 storing propagation delay times for said terminals of which random access are rejected.

2. The random access control method according to claim 1, wherein transmission data in a message part transmitted by each of said terminals of which random access are allowed 15 is received by said base station.

3. The random access control method according to claim 1, wherein said base station gives a priority to such a terminal that a present propagation delay time of that terminal is substantially equal to one of the stored 20 propagation delay time.

4. The random access control method according to claim 1, wherein said base station:

gives a priority to one of said terminals on the basis of an electric power, Eb/N0 ratio, or a data error rate in addition 25 with said propagation delay time; and

stores said electric power, Eb/N0 ratio, or data error rate in addition with said propagation delay time for said terminal of which random access is rejected.

5. A base station apparatus for controlling a plurality of

terminals in a random access CDMA system, which comprises:

a receiving unit for receiving the preamble signals and transmission data from said terminals of which random
5 accesses are allowed;

a correlation unit for calculating a correlation between an output from said receiving unit and a plurality of prescribed preamble signals;

10 a preamble signal determination unit for determining whether the base station transmits a signal for allowing said random access or a signal for rejecting said random access on the basis of said correlation and a propagation delay time of said preamble said the propagation delay time; and

15 a code generation unit for generating and transmitting said signal for allowing said random access or said signal for rejecting said random access.

6. The base station apparatus according to Claim 5, which further comprises a delay memory unit for storing said delay time of said terminal of which random access is
20 rejected.

7. The base station apparatus according to Claim 5, wherein said base station:

transmits to one of said terminals said signal for allowing said random access;

25 stores propagation delay times of said terminal of which random access are rejected; and

gives a priority to such a terminal that a present propagation delay time of that terminal is substantially equal to one of the stored propagation delay times.